

WEST Search History

DATE: Thursday, March 11, 2004

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L25	l23 and l1	1
<input type="checkbox"/>	L24	L23 and l2	0
<input type="checkbox"/>	L23	(6112206 or 5675815 or 5526259 or 5867811 or 4980829 or 5966685 or 5404299 or 5497319 or 6085162)[pn]	9
		<i>DB=EPAB,DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L22	l20 and (gateway\$ or (gate way\$))	2
<input type="checkbox"/>	L21	L20 and (wap or ((wireless\$ or (wire less\$)) adj (application\$ or access\$) adj protocol\$))	2
<input type="checkbox"/>	L20	L19 and (handheld or (hand held) or mobil\$ or wireless\$ or (wire less\$) or palm\$ or laptop\$ or (lap top\$) or portab\$ or pda or (personal\$ adj digital\$ adj assist\$) or infrared\$ or blackberry or (black berry) or bluetooth or (blue tooth))	83
<input type="checkbox"/>	L19	L18 same ((remot\$ or external\$) near2 (data or datum or information or stor\$ or memor\$ or referenc\$))	742
<input type="checkbox"/>	L18	local\$ near2 (data or datum or information or stor\$ or memor\$ or referenc\$)	9685
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L17	L16 and (mobil\$ or wireless\$ or (wire less\$) or palm\$ or laptop\$ or (lap top\$) or portab\$ or pda or (personal\$ adj digital\$ adj assist\$) or infrared\$ or blackberry or (black berry) or bluetooth or (blue tooth))	12
<input type="checkbox"/>	L16	l2 and l14	28
<input type="checkbox"/>	L15	l3 and l14	1
<input type="checkbox"/>	L14	(coulter, kenneth)[xa,xp]	450
<input type="checkbox"/>	L13	l3 and ((languag\$ or dictionar\$) near4 (translat\$ or convert\$ or conversion\$ or transform\$))	15
<input type="checkbox"/>	L12	l7 not (l8 or l10)	20
<input type="checkbox"/>	L11	l7 and l8	8
<input type="checkbox"/>	L10	l3 same (gateway\$ or (gate way\$))	3
<input type="checkbox"/>	L9	l3 same (wap or ((wireless\$ or (wire less\$)) adj (application\$ or access\$) adj protocol\$))	2
<input type="checkbox"/>	L8	l3 and (wap or ((wireless\$ or (wire less\$)) adj (application\$ or access\$) adj protocol\$))	13
<input type="checkbox"/>	L7	l3 and (gateway\$ or (gate way\$))	31
<input type="checkbox"/>	L6	l3[ti,ab]	19
<input type="checkbox"/>	L5	l3 and l4	35

- | | | | |
|--------------------------|----|--|-------|
| <input type="checkbox"/> | L4 | (709/217 or 709/218 or 709/219 or 707/1 or 707/10 or 707/2).ccls. | 7329 |
| <input type="checkbox"/> | L3 | L2 same (wireless\$ or (wire less\$) or palm\$ or laptop\$ or (lap top\$) or portab\$ or pda or (personal\$ adj digital\$ adj assist\$) or infrared\$ or blackberry or (black berry) or bluetooth or (blue tooth)) | 307 |
| <input type="checkbox"/> | L2 | L1 same ((remot\$ or external\$) near2 (data or datum or information or stor\$ or memor\$ or referenc\$)) | 5989 |
| <input type="checkbox"/> | L1 | local\$ near2 (data or datum or information or stor\$ or memor\$ or referenc\$) | 41136 |

END OF SEARCH HISTORY



US006112206A

United States Patent [19]

Morris et al.

[11] Patent Number: **6,112,206**[45] Date of Patent: ***Aug. 29, 2000****[54] DATA COLLECTION AND DISSEMINATION SYSTEM**

[75] Inventors: Michael D. Morris, Cedar Rapids; Lyle L. Zumbach, Coggan, both of Iowa

[73] Assignee: Intermec Technologies Corporation, Everett, Wash.

[*] Notice: This patent is subject to a terminal disclaimer.

[21] Appl. No.: 08/935,741

[22] Filed: Sep. 23, 1997

Related U.S. Application Data

[63] Continuation of application No. 08/520,136, Aug. 28, 1995, Pat. No. 5,671,436, which is a continuation-in-part of application No. 08/267,758, Jul. 5, 1994, Pat. No. 5,568,645, which is a continuation of application No. 07/748,150, Aug. 21, 1991, Pat. No. 5,349,678.

[51] Int. Cl.⁷ G06F 17/30

[52] U.S. Cl. 707/10; 709/218

[58] Field of Search 707/10; 709/218

References Cited**U.S. PATENT DOCUMENTS**

4,940,974 7/1990 Sojka 340/825.08

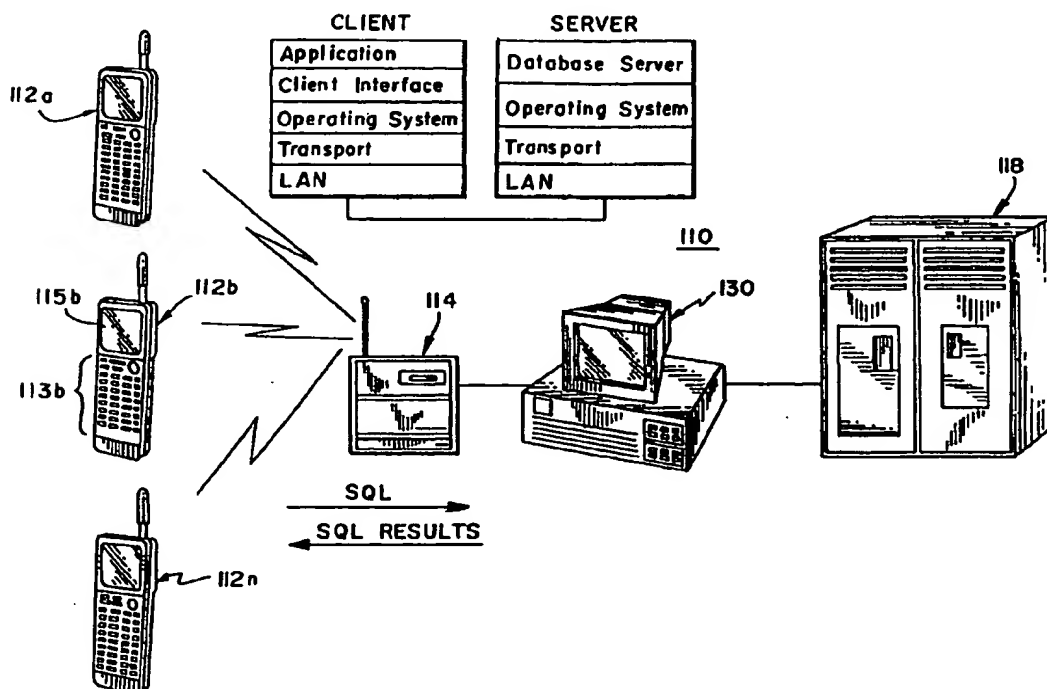
Primary Examiner—Thomas M. Heckler

Attorney, Agent, or Firm—Akin, Gump, Strauss, Hauer & Feld, L.L.P.

[57] ABSTRACT

A data collection and dissemination system, in which one or more portable data terminals enter or disseminate data through a wireless access point to which they are communicatively coupled. The wireless access point is also coupled to a portable server for storing and retrieving the information requested by the portable data terminals. The portable server maintains a database for the purposes of storing data from and retrieving data for the portable data terminals. The portable data terminals initiate a transaction with the portable server via communication with the wireless access point. The portable data servers formulate a request to retrieve or store data using a database query. The database query is transmitted to the wireless access point, from which the query is directed to the portable server, which then stores or transmits the requested data. The portable server is connected to other networks and is able to access data on data retrieval devices on these networks, as the data retrieval devices on these networks may also access the data on the portable server. Thus, a wide area network, such as the Internet, provides a backbone network through which the mobile units can communicate to the database server. The mobile units can access data from other mobile units, as other database servers on the networks may also access the data also.

18 Claims, 13 Drawing Sheets



First Hit Fwd Refs**End of Result Set**

Generate Collection

Print

L25: Entry 1 of 1

File: USPT

Aug 29, 2000

DOCUMENT-IDENTIFIER: US 6112206 A

TITLE: Data collection and dissemination system

Detailed Description Text (22):

After transmission of the SQL request for a new program, step 174 waits for a returned message to the terminal 112 and will time out after a set period, e.g., 30 seconds. If no response is received by the requesting terminal 112 within this period, step 176 generates a return error message and returns it to the calling application program. On the other hand if the requested original program is received within the period, step 178 updates a mapping memory or table, which may be illustratively included within the SRAM 146 (see FIG. 3) of the terminal 112. A record of the application program or module thereof presently being executed by the microprocessor 140 is recorded in the mapping memory in terms of its starting address and length. When a new program is received and loaded into SRAM 146, step 178 records its starting address and length in the mapping memory, before loading the root module of the new program into a designated location of the SRAM 146 and, thereafter, initiates execution of the received and loaded program instead of returning control to the application program. The SRAM 146 is used as a "cache" memory to receive the 140 programs and memory overlays to be executed by the microprocessor 140. Thus, the SRAM 146 provides a local memory from which the application program may be executed, whereas the remaining sections or memory overlays of the application program and other original programs may be stored distantly in the database of the server 130.

Detailed Description Text (23):

It is appreciated that application programs are sometimes larger than it's sections or memory overlays. Therefore to efficiently use the local memory, e.g., the SRAM 146, new programs are illustratively stored in the database of the server 130, whereas program overlays may be stored in both the database of the server 130 and in the local memory, i.e., the SRAM 146. Therefore, if step 164 determines that the application is not requesting a new program, but rather an overlay module, step 180 examines the SRAM 146 and if the requested overlay module is in SRAM 146, the program moves to step 178 to initiate execution of the overlay module and control is passed to the overlay module. However, if the requested overlay module is not in the SRAM 146, step 180 moves control moves to the transaction manager 158, which formulates and transmits a SQL request via the transceiver 114 to retrieve the needed overlay module from the database of the server 130. The requested memory overlay is transmitted back via the transceiver 114 and is loaded into SRAM 146 and, thereafter, the local mapping memory in SRAM 146 is updated in terms of its starting address and length. After step 174 determines that the requested program has been timely received as explained above, step 178 initiates execution of the overlay module before returning control to the application program.

Detailed Description Text (24):

Referring now to FIG. 6, there is shown the transaction manager program 158 which responds to a call from the application program 154 (see FIG. 4) for data to be processed thereby and provides an application programming interface (API) 157 to the application program which allows it to access the database in the server 130.